TR2 RX
Cable Management 850W

power Supply
ATX 12V 2.2 Version

Thermaltake
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User's Manual >>

TR2 RX Cable management 850W Power Supply

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1. *Introduction*

We live up to the promise of Thermaltake logo in our unending quest for excellence.
Shall you have any suggestion or comments, please access our web site :
http://www.thermaltake.com
or e-mail to :
support@thermaltakeusa.com
we appreciate your kindly feedback and you will receive the prompt response from our customer service team.

Thank you for choosing a quality Thermaltake TR2 RX 850W Cable Management PC Power Supply. The TR2 RX 850W featuring our Embedded Socket and Modularized Cable Management plus 14cm cooling fan. We trust that you will find it providing you with many years of service.

Independent voltage circuit

Voltage won't fluctuate and influence each rails. The particular design for +3.3V, +5V, and +12V that offers unflappable current delivery under heavy load and makes voltage output more stable.

Please take the time in familiarize yourself with the power supply, its connectors and the contents of this manual before proceeding with the installation of the power unit. You will need a Phillips crosshead screwdriver, perhaps your PC case manual and most certainly your motherboard manual.

Should you have any questions regarding the aforementioned steps, please contact Thermaltake directly. Failure to follow the proper procedures may cause severe bodily harm or PC component damage.
For Support or General Inquiries, please contact us at:

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2. *Components Check*

1. 850W power supply unit

2. An 8-pin EPS +12V power connector

3. A 4-pin ATX +12V power connector

4. Two sets of wires with 6-pin PCI-Express power connector

5. Two sets of wires with 4-pin floppy drive connector

6. Two sets of wires with 8-pin PCI-Express power connector

7. Two sets of wires with 5-pin SATA connectors

8. 4 mounting screws

9. One AC Input power cord

10. User manual

3. Installation

3.1 Warnings and Cautions

3.1.1 Do not pull the AC power cord when the power supply is in use or else damage to components will result.

3.1.2 Do not store the Power Supply in a high humidity and high temperature environment.

3.1.3 When using an ATX type power supply under testing conditions where the power supply unit is not installed in a PC with its components, please follow the steps below:

1)Please take a paper clip and untwist it.
2)Make sure the power supply unit is in the "OFF" position.
3)Locate the 20 or 24 pin motherboard connector from the power supply unit.
4)Plug one side of the paper clip into the green wire hole.
5)Plug the other side of the paper clip into any of the black wire holes.
6)Turn on the PSU to see if the power supply fans turn on.

3.1.4 High voltages exist in the power supply. Do not open the power supply case unless you are an authorized service technician or electrician.

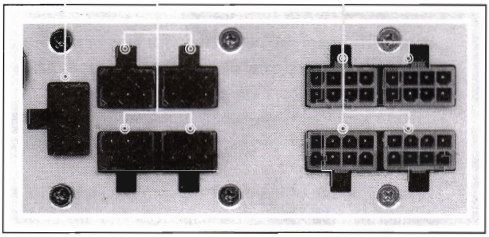
3.1.5 All warrantees and guarantees shall be voided should there be a failure to comply with any of the warnings and cautions covered in this manual.

3.2 Embedded Socket and Modularized Cable Management

3.2.1 Embedded Socket and Modularized Cable Management:
The new embedded socket and modularized cable management allows user use only the cables they need and improve the airflow in the chassis.

Embedded Socket and Modularized Cable Management Design:

8pin & 4pin +12V power connector **Peripheral, Floppy and SATA connector** **8pin&6pin PCI-E connector**



3.2.2 TR2 RX 850W unit: On the power supply, you will find sockets to connect with those cables. Users can choose which wire set they want to use for devices, graphic card, fans, etc. Inside the package, you will find the following wire set:

1. One EPS 12V 8pin CPU connector.
2. One ATX 12V 4pin CPU connector.
3. Eight 4-pin peripheral connectors and two 4-pin floppy drive connectors.
4. Six 5-pin S-ATA connectors
5. Two 6pin & two 8pin PCI-Express connectors
6. Two 8pin to 6pin PCI-Express adapters.

3.3 Installation Steps

To prevent electrical shocks, please disconnect the power cord from your existing power supply unit. TR2 RX 850W Cable Management PSU has automatic Voltage Selector Which will automatically change to 115V-230V PSU .

Installation Steps

3.3.1 Ground yourself to remove any static electricity by briefly touching your PC cases and then, disconnect the power cord from your old power supply (if replacing it)

3.3.2 Follow your computer case manual and disassemble the case.

3.3.3 Disconnect all the power connectors from the motherboard and from the peripheral devices such as case fans, hard drives, floppy drives. etc.

3.3.4 Remove the existing power supply from your computer case and replace it with your new Thermaltake TR2 RX 850W Cable Management PSU.

3.3.5 Connect the power connectors to the motherboard and peripheral devices (refer to the rest of this manual to match the various one-way key-locked connectors to the motherboard and accessories).

3.3.6 Connect the 6-pin PCI Express connector to PCI Express graphic card if you need.

Note: Please read the user manual supplied with your graphic card for detail usage instructions.

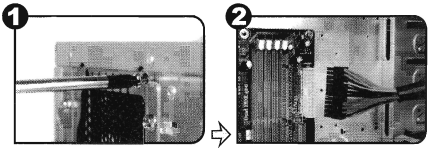
3.3.7 Close the computer case.

3.3.8 Make sure your power supply switch is on "OFF" position, and connect the supplied power cord to your Thermaltake TR2 RX 850W Cable Management PSU.

3.4 Power Supply Installation

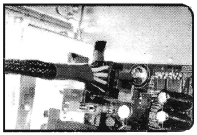
Step 1

After install the power supply unit into the chassis and then connect the 20+4-pin main power cable to motherboard 20pin or 24 pin socket.



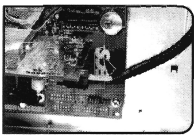
Step 2

Connect the EPS 12V 8pin or ATX 4pin auxiliary power connector to the motherboard. (Users can use either 4 pins or 8 pins, depending on the motherboard. Please check with the motherboard user's manual.)



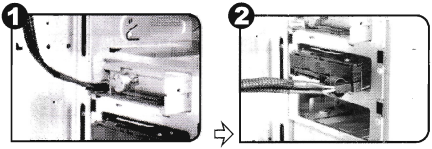
Step 3

Connect the 6-pin or 8-pin PCI-Express connector to your graphics card if necessary.

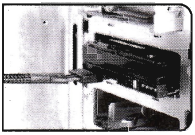


Step 4

Connect the 4-pin power connectors to peripherals such as DVD burners, hard disk drives, etc. In addition, users can connect the 4-pin floppy power connectors to the floppy drive.

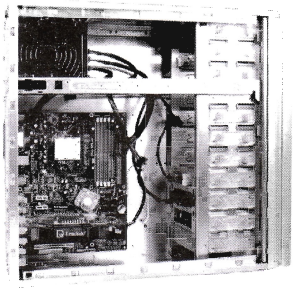


If there are S-ATA hard disk drives present, there are also Serial ATA connectors available.



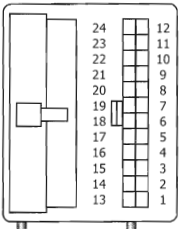
Step 5

The whole power supply components inside the



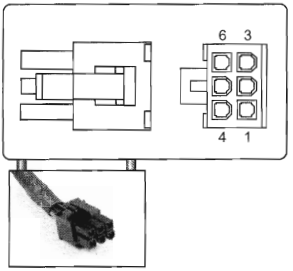
4. *Product Specification*

Main Power Connector



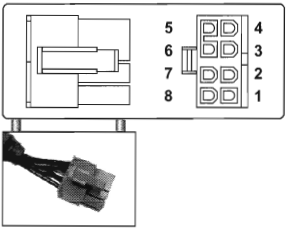
Voltage	Color			Color	Voltage
+3.3 V	Orange	1	13	Orange	+3.3 V
+3.3 V	Orange	2	14	Blue	-12 V
COM	Black	3	15	Black	COM
+5 V	Red	4	16	Green	PS_ON#
COM	Black	5	17	Black	COM
+5 V	Red	6	18	Black	COM
COM	Black	7	19	Black	COM
PWR_ON	Gray	8	20	N/C	N/C
+5 Vsb	Purple	9	21	Red	+5 V
+12 V	Yellow	10	22	Red	+5 V
+12 V	Yellow	11	23	Red	+5 V
+3.3 V	Orange	12	24	Black	COM

PCI Express Connector (6 pin)



Color	Signal	Pin
Yellow	12V	1
Yellow	12V	2
Yellow	12V	3
Black	COM	4
Black	COM	5
Black	COM	6

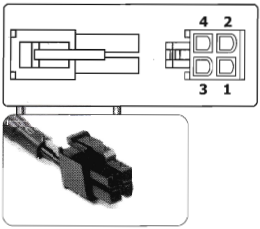
PCI-E Connector (8 pin)



Color	Signal	Pin
Yellow/Blue	+12V	1
Yellow/Blue	+12V	2
Yellow/Blue	+12V	3
Black	COM	4
Black	COM	5
Black	COM	6
Black	COM	7
Black	COM	8

CPU Connector (4 pin)

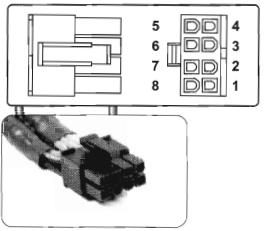
Support both dual core CPU and single core CPU systems motherboard



Color	Signal	Pin
Black	COM	1
Black	COM	2
Yellow	+12V	3
Yellow	+12V	4

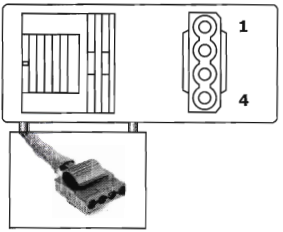
CPU Connector (8 pin)

Support the latest 8 pin Quad Core system motherboard



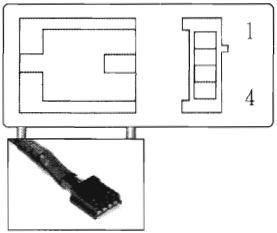
Color	Signal	Pin
Black	COM	1
Black	COM	2
Black	COM	3
Black	COM	4
Yellow	+12V	5
Yellow	+12V	6
Yellow	+12V	7
Yellow	+12V	8

Peripheral Connector (4 pin)



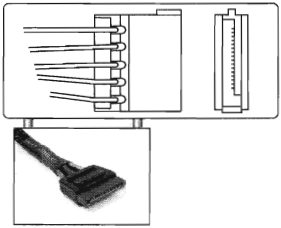
Color	Signal	Pin
Yellow	+12V	1
Black	COM	2
Black	COM	3
Red	+5VDC	4

Floppy Disk Connector (4 pin)



Color	Signal	Pin
Red	+5VDC	1
Black	COM	2
Black	COM	3
Yellow	+12V	4

Serial ATA Power Connector (5 pin)



Color	Signal	Pin
Yellow	+12V	1
Black	COM	2
Red	+5VDC	3
Black	COM	4
Orange	+3.3 VDC	5

8-pin PCI-E to 6-pin PCI-E adapter

8-pin PCI-E connector is able to use for 6-pin PCI-E connector graphic card by the adapter.

5. *Trouble Shooting*

Condition 1:

No DC output. The fan or fans are motionlessCheck:

1-1 Is the AC inlet plug firmly plugged into the PSU inlet socket?

1-2 Is the wall socket, extension power cord, power strip or surge protector in use, fully functional and wall power switch turned 'ON'?

1-3 Is the Main Board socket (24pin) plug fully and firmly inserted?

Condition 2:

The fan or fans began rotating and then stopped. The system hangs without proceeding any further.

Check:

2-1 Are the peripheral connectors firmly plugged into accessory devices, such as the main hard drive, CD ROM , etc?

2-2 If a plug has been inadvertently connected in an off-set or reversed position, unplug the AC power source, reconnect the offending connectors and then wait for 30 seconds before replug in the AC power source and try again.

Note:

If the power supply still cannot or is still unable to power up after following the above instruction, please send the unit back to your dealer or retailer for after sales service.